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Derwent Title: Headlamp for use in motor vehicles has a source of light pre-stored in a rear end piece for a fiber optic light guide and a decoupling element designed as a plane-parallel Cartesian oval pre-stored in a front end piece for the light guide.

Original Title: ☒ DE10062103A1: Fahrzeugscheinwerfer

Assignee: HELLA HUECK & CO KG Standard company
Other publications from HELLA HUECK & CO KG (WESF)...

Inventor: EICHHORN K; LUEDER C; TOPP E;

Accession/ 2002-549319 / 200259

Update:

IPC Code: F21S 8/12 ; F21V 8/00 ;

Derwent Classes: Q71; X26;

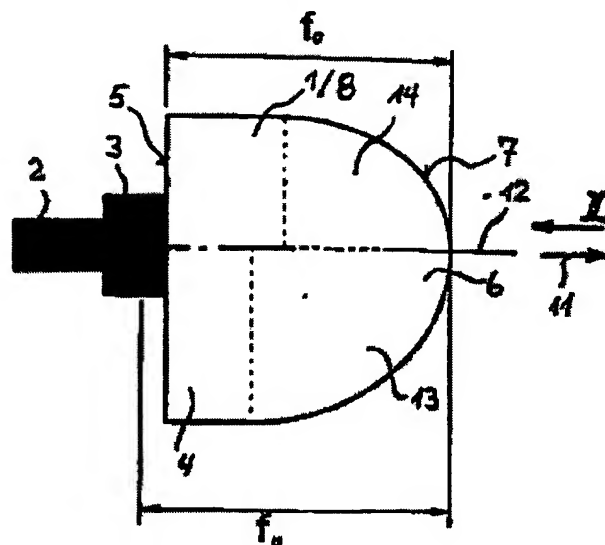
Manual Codes: X26-G(Illumination using optical fibres)

Derwent Abstract: (DE10062103A) **Novelty** - A headlamp has a decoupling element (1) and a fiber optic light guide (2) with a front end piece (3). A lamp with a reflector reflects light into a rear end piece. The decoupling element has an input surface (5) on its rear end (4) facing the front end piece. The decoupling element is a Cartesian oval with side surfaces plane-parallel to each other running in a vertical direction and in a direction of beam (11).

Use - For avoiding irradiation in outer areas of light distribution and for keeping to legally prescribed maximum dazzle values.

Advantage - Required distribution of light is achieved by means of the design of a light output surface for the front end piece.

Images:



Description of Drawing(s) - The drawing shows a side view of a decoupling element with a front end piece for a fiber optic light guide and different focal distances from the upper and lower halves of the decoupling element.

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Decoupling element 1, Fiber optic light guide 2, Front end piece 3, Input surface 5, Rear end 4, Direction of beam 11 [Dwg. 1/3](#)

Family: PDF Patent Pub. Date Derwent Update Pages Language IPC Code
☒ **DE10062103A1** * 2002-07-18 200259 5 German F21S 8/12
 Local appls.: DE2000001062103 Filed:2000-12-13 (2000DE-1062103)

INPADOC [Show legal status actions](#)
 Legal Status:

First Claim: [Show all claims](#)
 1. Scheinwerfer, insbesondere für Kraftfahrzeuge, mit einer einem hinteren Endstück eines Lichtleiters vorgelagerten Lichtquelle und einem einem vorderen Endstück des Lichtleiters vorgelagerten Auskopplungselement das als ein im Wesentlichen planparalleles kartesisches Oval ausgebildet ist, **dadurch gekennzeichnet**, dass das kartesische Oval (8, 8') in vertikaler Richtung unterhalb seiner in horizontaler Richtung angeordneten Längsachse (12) in seiner Geometrie so ausgebildet ist, dass die entstehende Lichtverteilung in einer quer zur Abstrahlrichtung angeordneten Ebene in den Außenbereichen reduziert ist.

Priority Number:

Application Number	Filed	Original Title
DE2000001062103	2000-12-13	

Title Terms: HEADLAMP MOTOR VEHICLE SOURCE LIGHT PRE STORAGE REAR END PIECE OPTICAL LIGHT GUIDE DECOUPLE ELEMENT DESIGN PLANE PARALLEL CARTESIAN OVAL PRE STORAGE FRONT END PIECE LIGHT GUIDE

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